Final Status Report - 2006

The 2002-06 Missouri Education Technology Strategic Plan included five major goals and 15 objectives to be reached by June 30, 2006. The original table provided baseline data, established in 2001, and the expected levels to be reached by 2006, the end of the five-year plan. The table below provides annual up-date information and serves as the final status report for the 2002-06 plan.

NOTES: Most of the information is gathered through the annual Missouri Census of Technology (COT) and technology program records and reports. For 2006, COT data were collected from 524 districts and 2,229 school buildings. Note that COT reporting excludes juvenile centers, special education cooperatives, buildings where attendance is reported at another building (such as a gifted center), or other buildings with no enrollment.

Technology Goal & Success Benchmarks	Status [NA means no data available]						
	2001 Base	2002	2003	2004	2005	2006 Goal	2006 Actual
Goal 1: **Student learning** (academic achievement and performance, including technology literacy) will be improved through the use of education technologies							
Missouri State Board of Education will establish and endorse student technology standards	No	Yes – June	Met	Met	Met	Yes	Yes
Districts will establish or endorse student technology standards *(item added to 2003 COT)*	NA	NA	85% (448)	88% (459)	90% (469)	100%	93% (484)
Students will be computer literate (be able to perform basic computer skills) by age 12 *(item changed to "technologically literate" in 2003 COT and moved from 6th-grade to 8th-grade in 2004)*	84%	86%	86%	86%	90%	100%	90%
Students will routinely use the following technologies in their classrooms: • Educational software *("routine" defined as three times per week in 2004)*	62%	75%	80%	81%	80%	100%	79%
Students will routinely use technology for the following functions: • Produce media presentations	23%	32%	37%	29%	40%	100%	43%
• Produce written assignments	52%	65%	68%	46%	59%	100%	60%
• Conduct online research *("routine" defined as three times per week in 2004)*	49%	59%	63%	NA*	53%	100%	56%
High schools will provide courses via distance learning [1]	39%	39%	*	*	*	75%	*

* Data element not included in the Census of Technology. [1] In 2001 and 2002, high school distance learning data were derived from grant program files, a program that was discontinued after 2002.

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Technology Goal & Success Benchmarks	Status [NA means no data available]						
	2001 Base	2002	2003	2004	2005	2006 Goal	2006 Actual
Goal 2: **Teacher preparation and delivery of instruction** (performance, including technology literacy) will be improved through the use of education technologies							
Missouri State Board of Education will establish and endorse teacher technology standards	No	Yes - June	Met	Met	Met	Met	Met
Districts will establish or endorse technology standards for teachers *(item added to 2003 COT)*	NA	NA	77% (402)	79% (414)	79% (412)	100%	83% (434)
Districts will integrate technology into the following core curriculum areas:							
• Communication arts	NA	NA	96% (502)	95% (497)	96% (505)	100%	98% (512)
• Mathematics	NA	NA	90% (469)	86% (451)	88% (463)	100%	92% (481)
• Science	NA	NA	90% (472)	87% (454)	90% (474)	100%	94% (494)
• Social studies *(item added to 2003 COT and "curriculum integration" defined in 2004)*	NA	NA	89% (464)	85% (444)	88% (462)	100%	92% (483)
Teachers will possess intermediate or advanced technology skills *(skill levels defined for 2003 COT)*	72%	76%	79%	81%	81%	100%	82%
Teachers will routinely use the following technologies in their classrooms: • Educational software *("routine" defined as three times per week in 2004)*	59%	71%	76%	78%	78%	100%	76%
Teachers will routinely use technology for the following functions:							
• Computer-generated presentations	29%	37%	43%	47%	48%	100%	51%
• Writing assignments	60%	71%	77%	81%	79%	100%	80%
• Research information collection	56%	67%	74%	75%	75%	100%	76%
• Lesson plan development	45%	59%	64%	66%	66%	100%	68%
• Data management (student records)	46%	56%	64%	70%	73%	100%	76%
• Track student performance	48%	61%	69%	74%	75%	100%	77%
• Assess student learning	NA	55%	64%	69%	70%	100%	72%
• Instructional delivery and presentation *("routine" defined as three times per week in 2004)*	29%	38%	46%	51%	57%	100%	60%

* Data element not included in the Census of Technology.

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Technology Goal & Success Benchmarks	Status [NA means no data available]						
	2001 Base	2002	2003	2004	2005	2006 Goal	2006 Actual
Goal 2: Teacher preparation and delivery of instruction (performance, including technology literacy) will be improved through the use of education technologies (continued)							
Teachers will be able to appropriately integrate technology in curriculum and instruction *(item added to 2003 COT and fully defined for 2004)*	NA	NA	41%	53%	50%	75%	50%
Elementary buildings will have one or more eMINTS certified teachers – teachers who have completed at least one year of eMINTS training (N = 1,136)	11% (125)	16% (181)	21% (238)	24% (277)	30% (345)	50%	40% (459)
Goal 3: The teaching and learning process will be enhanced through the use of technology for **administration, management, and communications**							
Missouri State Board of Education will establish and endorse administrator technology standards	No	Yes-June	Met	Met	Met	Yes	Met
Districts will have a State-approved technology plan that	100%	100%	100%	Met	Met	100%	100%
• is tied to school improvement plans	98% NA	10 / 10 10	10+447 457	457+67 524	Met	100%	100%
• addresses all five technology focus areas	NA	Yes	Yes	Yes	Met	100%	100%
• includes district participation in the E-rate program (Non-MOREnet related)	70% (369)	65% (337)	77% (374)	73% (381)	79% (414)	100%	78% (404)
○ Earmarks portion of savings for technology	NA	36%	74%	74%	80% Met	75%	80%
• indicates participation in MOREnet Network Projects and E-rate programs	97% (510)	97% (510)	97% (511)	98% (512)	98% (512)	100%	98% (513)
Districts will form partnerships with business and/or higher education to help with technology planning, implementation, and evaluation	32%	27%	31%	60% Met	Met	50%	Met
Administrators will possess intermediate or advanced technology skills							
• Principals *(skill levels defined for 2003 COT)*	82%	82%	90%	92%	91%	100%	92%
Districts will provide email accounts to the following staff							
• Administrators	NA	NA	96% (504)	98% (515)	96% (502)	100%	97% (508)
• Teachers	NA	NA	95% (499)	97% (510)	94% (495)	100%	95% (498)
• Support services staff *(item added to 2003 COT)*	NA	NA	91% (477)	94% (494)	90% (472)	100%	92% (482)

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Technology Goal & Success Benchmarks	Status [NA means no data available]						
	2001 Base	2002	2003	2004	2005	2006 Goal	2006 Actual
Goal 3: The teaching and learning process will be enhanced through the use of technology for **administration, management, and communications** (continued)							
Building administrators will routinely use the following technologies: • Educational software *("routine" defined as three times per week in 2004)*	34%	86%	41%	43%	43%	50%	44%
Principals will routinely use technology for the following functions: • Data management (student records)	60%	71%	81%	83%	82%	100%	85%
• Track student performance	56%	67%	78%	81%	80%	100%	84%
• Assess student learning	NA	58%	67%	72%	71%	100%	74%
• Communicate with peers, parents, experts, others *("routine" defined as three times per week in 2004)*	48%	63%	79%	87%	93%	100%	95%
Buildings will develop and maintain at least one technology-mediated feedback mechanism for parents and patrons	NA	45% (948)	95% (2132)	94% (2078)	96% (2132)	100%	98% (2178)
Goal 4: School administrators, teachers, staff, and students will have **equitable access** to education technologies that promote student performance and academic achievement							
Districts will build and maintain a LAN • Dedicated connection to the Internet	96%	93%	94% (2150)	97% (2134)	99.4% (2198)	100%	99.8% (2225)
• T1 connection or better	NA	NA	85% (1911)	90% (1988)	95% (2101)	100%	97% (2155)
• Not exceeding 70% of bandwidth capacity [1]	NA	**	**	**	**	100%	MET
• Districts receiving additional bandwidth (via MOREnet Network Program) *(item changed to "dedicated" connection in 2002, moved to Building COT in 2003, and terms defined for 2004 COT)*	NA	20	23	49	86	As needed	171

[1] Objective is basically met as MOREnet TNP serves 98% of districts and provides additional bandwidth as needed.

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Technology Goal & Success Benchmarks	Status [NA means no data available]						
	2001 Base	2002	2003	2004	2005	2006 Goal	2006 Actual
Goal 4: School administrators, teachers, staff, and students will have **equitable access** to education technologies that promote student performance and academic achievement (continued)							
School buildings will be connected to the district LAN/WAN and supports voice, data, and video							
• Building LAN	72%	91%	96%	94%	99%	100%	99%
• Dedicated connection to the Internet	73%	91%	98%	97%	99%	100%	99%
• Connected to district LAN/WAN	59%	72%	80%	80%	87%	100%	92%
• Percent computers connected [1]	NA	NA	88%	94%	96%	100%	96%
• Providing Web-hosting services	NA	NA	NA	47%	*	*	*
• Districts providing email services *(items added and others revised in 2003 and all terms defined for 2004 COT)*	NA	NA	50%	60%	95%	100%	97%
School buildings will have videoconferencing capacity						100%	
• I-TV videoconferencing	NA	11% (239)	17% (390)	17% (379)	21% (471)	50%	19% (434)
• IP-based videoconferencing [2] desktop/interactive web-based/non-interactive	NA	10% (205)	49% (1107)	40% (893)	44% (12% & 32%)	50%	48% (12 & 36%)
• Satellite	NA	8% (163)	29% (642)	23% (518)	18% (399)	50%	18% (405)
• Cable television *(distance learning technologies/modes of delivery defined for 2004 COT)*	NA	13% (285)	61% (1371)	58% (1276)	52% (1140)	50%	53% (1191)
Classrooms will be equipped with							
• Telephone access	62%	51%	56%	57%	***	100%	60%
• Internet-connected computer	55%	80%	86%	88%	***	100%	90%
• Number of students per Internet-connected computer	5.0	4.3	4.0	3.26	3.4	2:1	2.96
Full teacher workstations (computer, projection device, interactive whiteboard, printing access) *(terms defined for 2004 COT)*	11%	20%	23%	26%	***	50%	32%

* Data element not included in the Census of Technology (Web hosting was moved to District Census in 2005).
*** Unable to derive reliable statistics from data collected in 2005.
[1] Internet-connected computer statistic does not include handheld devices.
[2] Beginning in 2005, COT distance learning item distinguished between interactive and non-interactive videoconferencing.

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Technology Goal & Success Benchmarks	2001 Base	Status [NA means no data available]					
		2002	2003	2004	2005	2006 Goal	2006 Actual
Goal 5: School administrators, teachers, staff, and students will have adequate **technical support**							
Districts will employ/contract technical support staff • One full-time, on-site district technology director	NA	State average 1.88 Median District 0.9	State average 2.18 Median District 1.0	State average 2.09 Median District 1.0	State average 2.10 Median District 1.0	100% Bldgs Median District ≥1.0	State average 2.21 Median District 1.0
Buildings will have on-site technical support • One technical FTE per building or 1 for every 300 workstations	NA	Overall average of 1.17 staff per building	.30	*	96% Bldgs / Median 1.0	100% Bldgs / Median ≥1.0	95% Bldgs / Median 1.0
• One instructional technology FTE per building or 1 for every 150 teachers	NA		.71	*	93% Bldgs / Median 1.0	100% Bldgs / Median ≥1.0	95% Bldgs / Median 1.0
• Typical length of time to resolve routine technical problems/repairs is 3 days or less	NA	NA	NA	56%	82%	100%	81%
• At least 95% of computers are in working order during a typical day *(items about building-level technical and instructional staff added to 2003 COT and items about typical repairs and computers in working order added in 2004)*	NA	NA	NA	96%	98%	100%	98%

* Data element not included in the Census of Technology or not reportable.